

**METHOD AND SYSTEM FOR PROVIDING INDUCTION CHARGING HAVING
IMPROVED EFFICIENCY**

ABSTRACT

[00010] A battery charging system (250) for use with an induction charger (210). The battery charging system can include a secondary coil (252) having a plurality of turns for receiving magnetic flux produced by a primary coil (220) of the induction charger, and a control circuit (254) for controlling a number of turns of the secondary coil that are used in generating an output voltage for charging a cell (264). For example, the secondary coil can include a plurality of taps (291, 292, 293, 294), each of the taps providing an electrical connection to the coil at a different point, and thus providing a variety of selectable output voltages.